

BRINGING THE POWER
OF UNIX TO YOUR DESKTOP



ACORN R200 SERIES

Acorn 

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As part of its continuing commitment to providing UNIX solutions, Acorn introduces the R200 Series of workstations. Building on the success of the R140 personal workstation (with which there is full binary compatibility), the R200 Series offers higher performance and expandability at a very competitive price, together with the availability of a wide range of software products for RISC iX, Acorn's implementation of UNIX.

Acorn's R200 Series and R140 together provide a spectrum of products, from low-cost discless workstations through to powerful workstations and mini file-server configurations. From a single terminal to a complete UNIX network, Acorn systems develop with your needs, via RAM and SCSI expansion and a range of monitors.

The R200 Series

The new R200 Series models are:

R225

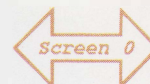
A high-performance discless workstation, particularly attractive in teaching and research laboratories, as well as in a commercial environment.

R260

A powerful workstation with internal 100Mb SCSI hard disc, to run a full range of software standalone, and offering even more possibilities as part of a network with other workstations, either from Acorn or other manufacturers.

Both models offer outstanding price/performance, are fully expandable and have the added advantage of a small footprint – ideal desktop machines.





POWERFUL UNIX SOLUTIONS

Acorn's UNIX products bring you a world of software solutions; with a wide and growing range of titles listed in the RISC iX applications catalogue, including those from internationally-known software houses through to small specialists. Acorn offers a range of platforms to suit the needs of users looking for real UNIX solutions at an affordable price. For example:

Imaging solutions

The R200 Series with SVGA displays provides an entry to the world of professional image processing. Software titles like Gemsoft 36 include library functions such as image transformation, convolution filtering and contrast stretching. The R200 Series is particularly relevant to high-tech areas like defence, satellite imaging, research and teaching laboratories.

Data visualisation

Powerful software such as UNIRAS and Acuity can turn complex data into a visual representation that is meaningful to others, turning numerical, financial and statistical data into charts, graphs and 3 D models.

Artificial intelligence

An R200 Series workstation with expanded memory is the ideal platform for memory-hungry AI applications: Delphi Common LISP and Edinburgh Prolog are available for RISC iX. The R200 Series is ideal for expert systems of all kinds, education and training packages and specialised medical and scientific research programs.

Database solutions

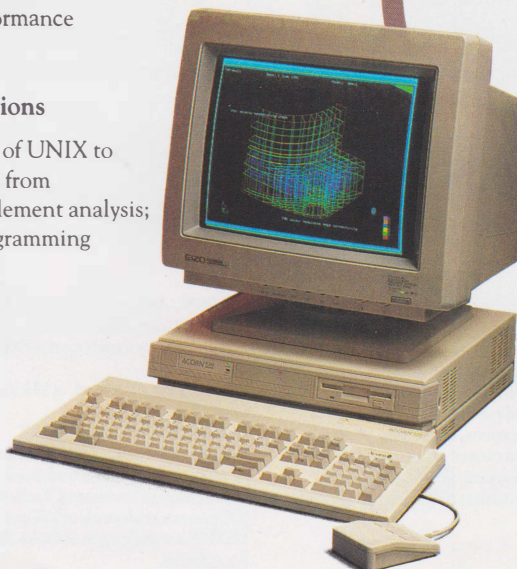
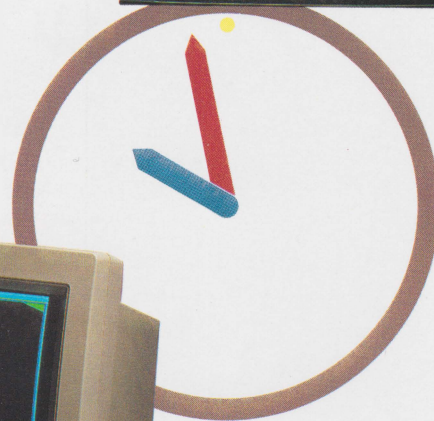
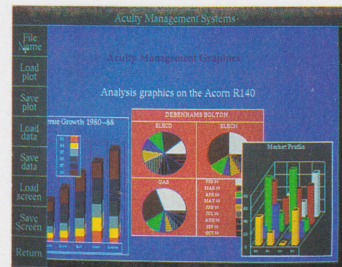
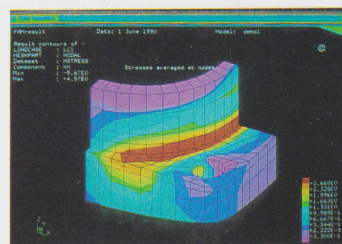
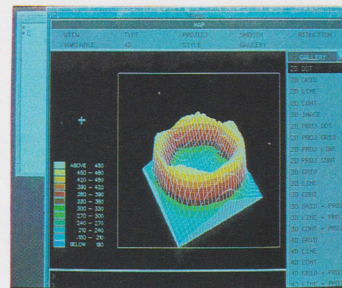
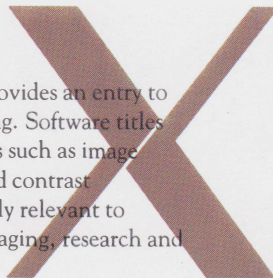
Some of the best-known UNIX database software, such as Informix and Uniplex can be found in the RISC iX software catalogue. Developers will find the excellent price/performance of the R200 series ideal when combined with a true RDBMS like Informix.

Office automation

Office environments looking to use integrated packages for electronic mail, word processing, text retrieval, databases, spreadsheets and business graphics will find leading titles such as Uniplex and Q-office on the R200 series. Together, these offer some of the best price/performance solutions available.

Complete range of solutions

Acorn can bring the power of UNIX to your desktop to solve needs from communications to finite element analysis; from object-orientated programming languages to statistical analysis. The RISC iX applications catalogue has full details of the extensive range of standard UNIX software available.



FEATURES

The Acorn R225 and R260 include a comprehensive range of features and capabilities in their specifications.

Operating system

- The Acorn RISC iX version 1.2 operating system is a state-of-the-art implementation of UNIX, which will be one of the first to comply with X/Open XPG3. It is compatible with System V and BSD environments, and previous releases of RISC iX. Compilers for ANSI C, FORTRAN 77 and ISO PASCAL are included.

Graphics

- X Window System (version 11 release 4) software provides windowing and graphics facilities and windowed terminal emulation. A toolkit derived from OSF Motif 1.0 is provided, together with the *mwm* window manager. GKS and UNIRAS libraries are available under RISC iX. High-resolution (1152 × 900) monochrome monitors and a range of VGA/SVGA colour monitors are available from third party suppliers.

Software solutions

- RISC iX brings a wide range of industry-standard software titles to your desktop allowing you to exploit the 10+ MIPS performance of the ARM3 chip at the heart of the R200 Series. In addition, the development of specialised environments and applications using, for example, the 4GL and AI software offered under RISC iX opens a whole new world to developers.

Connectivity

- NFS release 4, Yellow Pages and TCP/IP allow the R200 Series workstations to participate in Ethernet networks, and, in addition, RISC iX 1.2 includes one of the first release 4 compatible implementations of MIT X11 client/server software. The JNT "Coloured Books" are available for wide area networking.

Ease of learning

- New UNIX users will appreciate the ease of use of the X.desktop GUI from IXI Limited, while experienced users still have access to all the power of command-line interaction with the RISC iX shell.

Maintenance and support

- The R200 Series is complete with a year's support package, including on-site maintenance, telephone hot-line assistance and diagnostics, warranty and free incremental software updates as released.

HARDWARE

	R140	R225	R260
CPU	ARM2	ARM3	ARM3
Main memory	4Mbytes	4Mbytes	8Mbytes
Expandable to	8Mbytes	16Mbytes	16Mbytes
Embedded cache		yes	yes
Floating point	Expansion card option (WE32206)	new ARM-FPA available 1991	new ARM-FPA available 1991
Internal hard disc (formatted)	47Mbytes		100Mbytes
Floppy disc (formatted)	720Kbytes		720Kbytes

Interfaces

Serial	yes	yes	yes
Parallel	standard	standard	standard
Ethernet (10base5)	option	standard	standard
Cheapernet (10base2)	option	standard	standard
SCSI Controller	option	option	standard
ST506 Controller	standard	option	option
3.5mm jack for stereo sound	yes	yes	yes
Free expansion slots	4	2	2

Display support

Multi-scan (640×480), with 16 colours	yes	yes	yes
VGA (640×480), with 16 colours		yes	yes
VGA (640×480), with 256 colours		yes	yes
SVGA (800×600), with 16 colours		yes	yes
High-resolution (1152×900) monochrome	yes	yes	yes

SOFTWARE

The R260 is supplied with the following software:

- RISC iX 1.2
- X Window System version 11, release 4 compatible server
- MIT X11 release 4 clients
- Xlib, Xt (Intrinsics), Xaw (Athena widget library)
- NFS release 4.0
- TCP/IP support
- C (ANSI X3.159-89, BSI 90/60809 IST/5:115, ISO/IEC DIS 9899) with *pcc* compatibility
- FORTRAN 77 with extensions
- ISO compatible PASCAL
- X.desktop 2.0 from IXI
- OSF Motif 1.0 derived toolkit and *mum*

RISC iX 1.2 will be validated against X/Open (XPG3) and is compatible with both System V and BSD environments. RISC iX 1.2 is fully backward-compatible with earlier versions (1.01 to 1.15).

OPTIONS

There is a wide range of expansion options. SCSI peripherals include:

- External hard disc and streaming tape (DC-600)
- Rewritable optical disc (Sony and Ricoh)
- Exabyte 8mm cartridge tape for backup

and other expansion cards include:

- Frame grabbers
- 4-port serial cards
- Eiconet network interface

All models come with full documentation and 12 months' on-site support.

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APP 287 FIRST EDITION JULY 1990

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